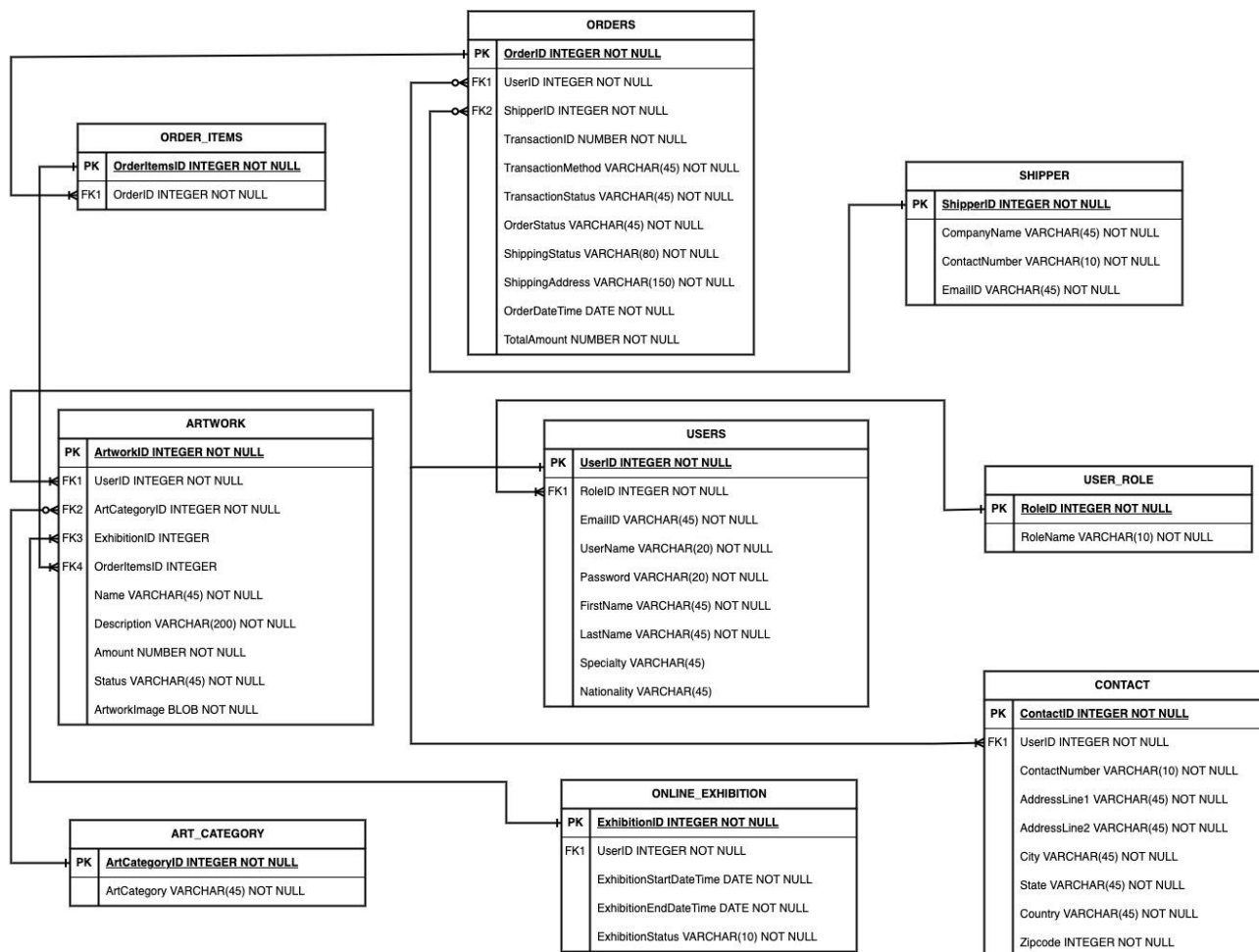


Northeastern University
DAMG6210 - Data Management and Database Design

Project Topic: **Art gallery management system**

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ERD(Final):



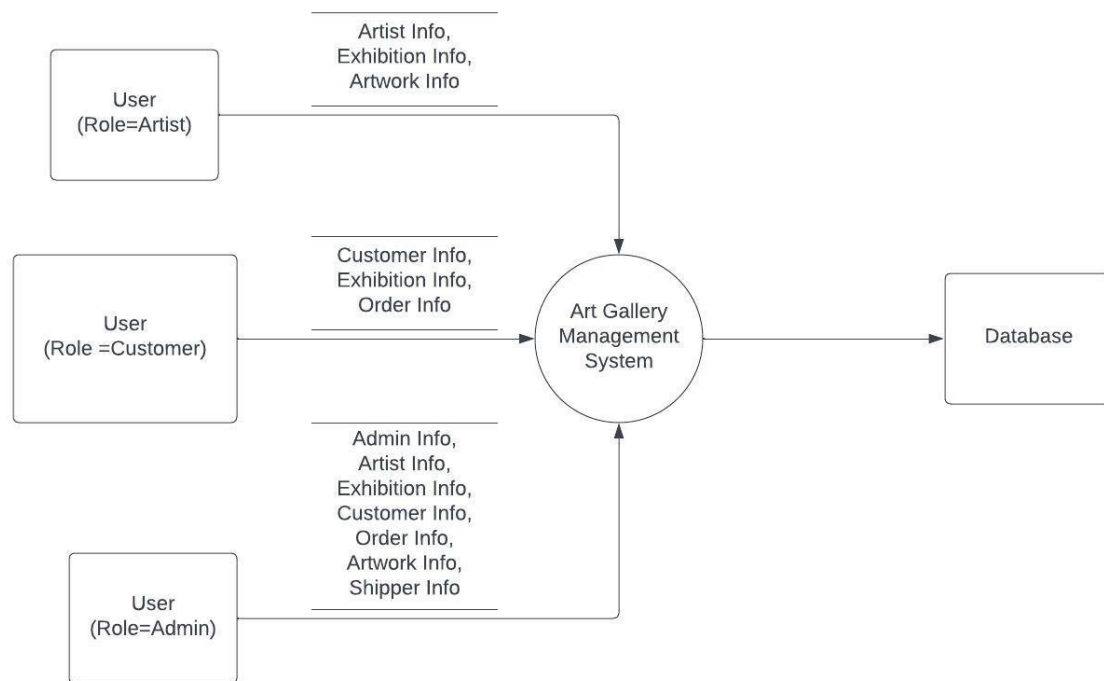
Business Rules:

- Each user should be registered member of the online art gallery
- Each user can have only one of the three user roles (Admin, Artist, Customer)
- Each user can have one to many contact details (mobile number, address)
- Each user of the type 'Artist' can have one to many artwork
- Every artwork will be a part of only one art category
- Each art category may have zero to many artworks
- Each user of the type 'Artist' may have zero to many online exhibitions
- Each exhibition can have one or more artworks
- One exhibition can display only one artist's artworks
- There can be zero or many exhibitions happening in the same date and time
- Each user of type 'Customer' may place zero or many orders
- Each user of type 'Customer' can visit zero or many exhibitions
- Each order can have one or many artwork
- Each artwork can be associated with only one order
- Once order is placed by a customer, it cannot be cancelled
- Each shipper will have zero or many orders to be shipped

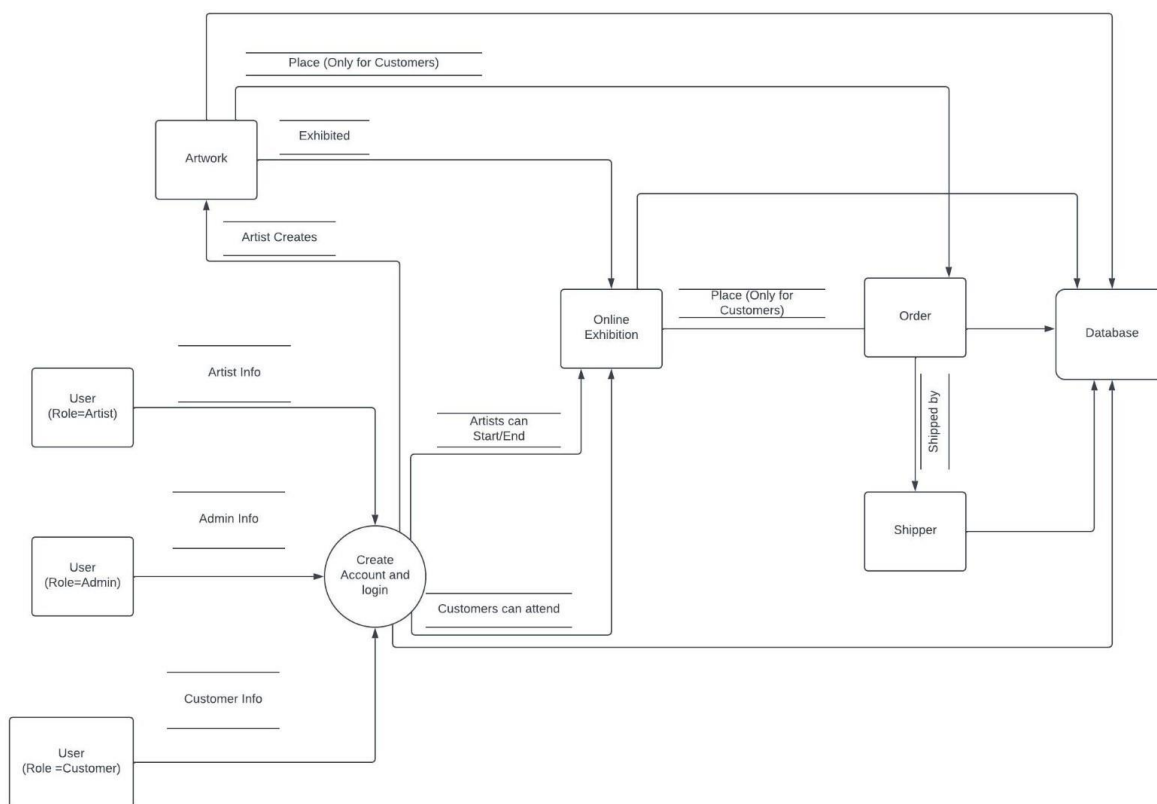
Views

- View_user_profile
This view will show all users and their details depending on the role, for example role = 'artist'
- View_artwork_info
This view will show all artworks and its details in the online art gallery
- View_order_shipper_info
This view will show all orders and their shipper info
- View_unshipped_orders
This view will show all orders that are yet to be shipped
- View_customer_order
This view will show all orders of a particular customer
- View_artist_exhibition
This view will show all exhibitions of an artist
- View_artist_unsold_artwork
This view will show all unsold artworks of an artist
- View_artist_upcoming_exhibition
This View will show all the upcoming exhibitions of an artist
- View_active_exhibition_artworks
This View will show all artworks in an active exhibition

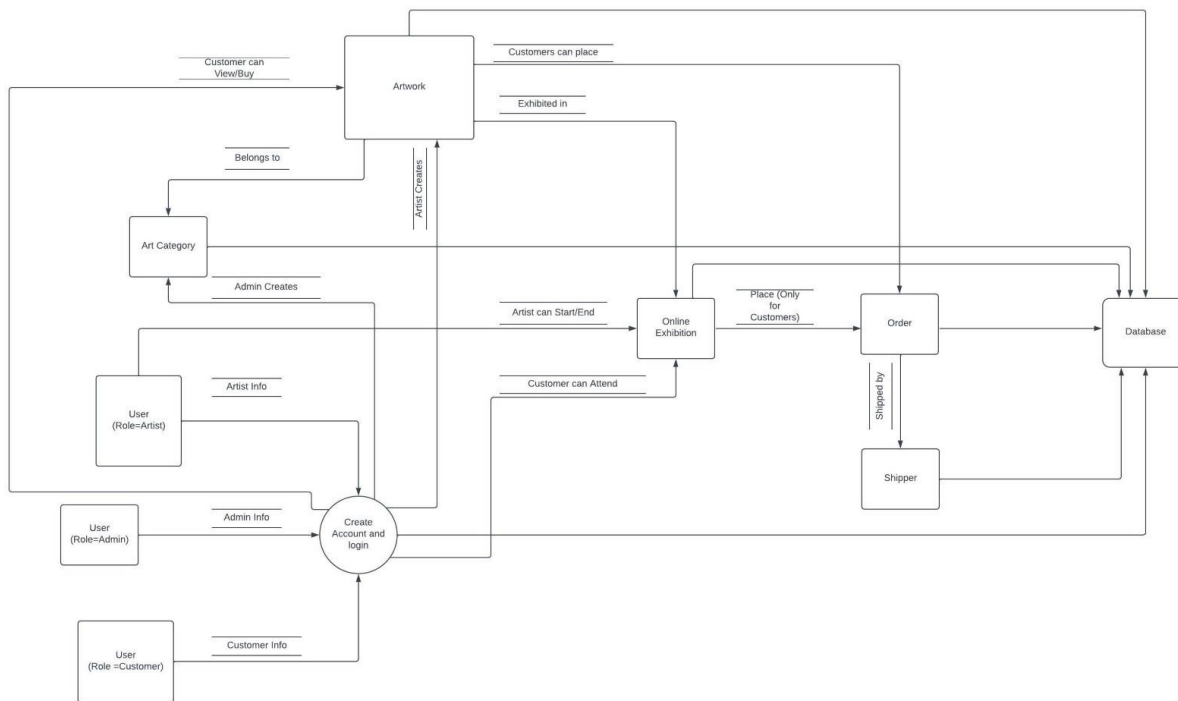
DFD (Level 0):



DFD (Level 1):



DFD (Level 2):



Access control (for tables):

- **Users** can be accessed by Admin
- **User_Role** can be accessed by Admin
- **Contact** can be accessed by Admin
- **Artwork** can be accessed by Admin, Artist
- **Artwork_Category** can be accessed by Admin
- **Online_Exhibition** can be accessed by Admin, Artist
- **Orders** can be accessed by Admin, Customer
- **Order_Items** can be accessed by Admin, Customer
- **Shipper** can be accessed by Admin, Artist

Role: Admin		
View Name	Access	Description
All Tables and views	View/Update/Insert/Delete data/Modify table properties	Admin has access to all views and tables
View_user_profile	View/Update data	View/Update user profiles
View_artwork_info	View data	View all artworks and its details in the gallery

View_order_shipper_info	View data	View all orders and their shipper details
View_unshipped_orders	View data	View all orders that are yet to be shipped

Role: Artist		
View Name	Access	Description
View_artist	View/Update data	Artist can View/Update own profile details
View_artist_artwork	Insert/View/Update data	Artist can Insert/View/Update their artwork details
View_artist_exhibition	Insert/View/Update data	Artist can Insert/View/ Update their exhibition details
View_artist_unsold_artwork	View data	Artist can view all their unsold artwork details

Role: Customer		
View Name	Access	Description
View_customer	View/Update data	Customer can View/Update own profile details
View_customer_order	Insert/View data	Customer can Insert/View their orders
View_upcoming_exhibition	View data	Customers can view all upcoming exhibition details
View_active_exhibition_artworks	View data	Customers can view all active exhibitions and their artworks